

## METHOD AND FRAMEWORK FOR MODEL SPECIFICATION, CONSISTENCY CHECKING AND COORDINATION OF BUSINESS PROCESSES

### ABSTRACT OF THE DISCLOSURE

5           A computer implemented system analysis and design method for use in  
a complex business environment characterized by a set of tightly linked  
business processes captures in a framework a world view of a business  
decision and/or a business application software system. A world view is  
defined by business objectives, constraints, assumptions, data, and underlying  
10   model used in business decision and/or the application software system. The  
framework is used to specify and document each business decision and/or  
business application software system in the complex environment. A BDML  
(Business Decision Markup Language) is used to implement the framework  
for specifying the world view of a business decision and/or a business  
15   application software system. A BDML processor comprises a syntax processor  
that checks the syntax correctness and syntax consistency within an individual  
and between different documents written in BDML, a logic processor that  
checks logical consistency between different documents written in BDML, in  
terms of the business objectives, constraints, assumptions, data, and  
20   underlying model among the different documents, and a knowledge-based  
processor including a knowledge base of business decisions, common choices  
for their decision support models and commercially available decision support  
systems, the knowledge-based processor providing suggestions for a set of  
BDML documents to improve consistency using the knowledge base.